

# DEVESH PANDURANG PATIL

Mumbai, India

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## PROFESSIONAL SUMMARY

Enthusiastic Computer Science and Data Science student with strong programming, problem-solving, and analytical skills. Experienced in software development, data analysis, and machine learning through academic projects and hands-on practice. Recently completed intensive research in multimodal AI systems. Eager to apply knowledge to solve real-world challenges in tech-driven environments.

## EDUCATION

### University of Mumbai

Bachelor of Engineering (B.E.) in Computer Engineering; CGPA: 7.76

Mumbai, India

2024

## RESEARCH & PROFESSIONAL EXPERIENCE

### AI Research Intern

The Hyphn (Hyphn Studios LLP)

[Start Month, Year] – [End Month, Year]

Bhopal, India (Remote)

- Spearheaded the research and development of an AI-powered Multimodal Semantic Intelligence Platform to optimize high-fidelity CGI creative workflows.
- Engineered an end-to-end semantic search engine using **CLIP-based architectures**, transitioning the studio from manual tagging to natural language querying for extensive visual asset libraries.
- Implemented high-performance data pipelines utilizing **Vector Databases (ChromaDB)** to enable sub-second similarity searches across thousands of 4K renders.
- Managed the complete Machine Learning lifecycle, including proprietary data curation, model fine-tuning, and the deployment of a full-stack analytics dashboard using **FastAPI** (backend) and **React** (frontend), containerized via **Docker**.

### Virtual Internship - Data Analytics Job Simulation

Quantum

March 2025 – April 2025

Remote

- Completed a job simulation focused on Data Analytics and Commercial Insights for the data science team.
- Developed expertise in data preparation and customer analytics, utilizing transaction datasets to extract valuable insights and deliver data-driven commercial recommendations.

### Virtual Internship - Data Analytics Job Simulation

Deloitte Australia

April 2025

Remote

- Completed a simulation involving data analysis and forensic technology.
- Created a data dashboard using Tableau and used Excel to classify data and draw business conclusions.

## PUBLICATIONS

**Research Paper:** "Evaluation based Approaches for Liver Disease Prediction using Machine Learning Algorithm". *International Journal for Research in Engineering Application & Management (IJREAM)*. ISSN: 2454-9150 | Vol. 10, Issue 01, April 2024. DOI: 10.35291/2454-9150.2024.0270.

## TECHNICAL SKILLS

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**Programming & Languages:** Python (Pandas, NumPy, Matplotlib, Seaborn), SQL, DSA, C++

**Machine Learning & AI:** Supervised and unsupervised algorithms, Scikit-Learn, NLP, PyTorch, Hugging Face Transformers, CLIP models

**Data Engineering & Databases:** MySQL, MS SQL Server, Vector Databases (ChromaDB), Excel

**Web Development & Deployment:** HTML, CSS, Streamlit, Flask, FastAPI, React, Docker

**Tools & Visualization:** Power BI, Tableau, VS Code, Jupyter Notebook, PyCharm, Google Colab

## KEY ACADEMIC PROJECTS

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### Email SMS spam classifier using NLP & ML

- Focuses on detecting spam messages in emails and SMS using Natural Language Processing (NLP) and Machine Learning.
- The model effectively classifies messages using text-processing techniques. Hyperparameter tuning improved Logistic Regression accuracy to 98.2% and precision to 99.2%.
- *Tech Stack: Python (Pandas, NumPy, NLTK), Scikit-learn, Streamlit*

### Evaluation based Approaches for Liver Disease Prediction using ML Algorithm

- Explored the application of ML algorithms to predict liver disease based on patient health data to aid early diagnosis.
- Evaluated models including Support Vector Machines (SVM) (88.36% accuracy) and Logistic Regression (87.07% accuracy).
- *Tech Stack: Python, Scikit-Learn, Django*

### Bank Loan Performance and Risk Analysis

- Developed an end-to-end data analysis project for loan analytics using SQL for data extraction and Power BI for dashboard creation.
- Provided detailed breakdowns of funded amounts and repayment rates by region to aid risk management strategies.

## CERTIFICATIONS & LEADERSHIP

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**Data Science (Certificate):** INTERNSHALA-NSDC TRAINING (4 Months) - December 2024

**Python Developer (Certificate):** Udemy (1 Month) - October 2024

**Head of Technical Committees:** Association of Computer Engineering Students (ACES). Led a team in organizing workshops, hackathons, and coding competitions.